

Title (en)

Mobile wireless communications device with selective antenna load switching and related methods

Title (de)

Mobile drahtlose Kommunikationsvorrichtung mit selektiver Antennenlastschaltung für Antennen und entsprechende Verfahren

Title (fr)

Dispositif mobile de communications sans fil doté d'une commutation de charge pour antenne sélective et procédés correspondants

Publication

**EP 2117079 B1 20190508 (EN)**

Application

**EP 08161563 A 20080731**

Priority

US 5143208 P 20080508

Abstract (en)

[origin: EP2117079A1] A mobile wireless communications device may include at least two antennas having a different structure. The device may also include wireless transceivers, a load(s), signal processing circuitry, and a controller. The controller may be for selectively switching the signal processing circuitry to a desired one of the wireless transceivers, selectively switching a desired one of the antennas to the desired one of the wireless transceivers, and selectively switching a different one of the antennas to at least one of the loads (35a, 35b, 36a, 36b).

IPC 8 full level

**H01Q 1/24** (2006.01); **H01Q 21/28** (2006.01); **H04B 1/00** (2006.01); **H04B 7/04** (2017.01)

CPC (source: EP KR US)

**H01Q 1/24** (2013.01 - KR); **H01Q 1/243** (2013.01 - EP US); **H01Q 5/00** (2013.01 - KR); **H01Q 21/28** (2013.01 - EP US); **H04B 1/005** (2013.01 - EP US); **H04B 1/006** (2013.01 - EP US); **H04B 1/40** (2013.01 - US); **H04B 1/48** (2013.01 - KR); **H04B 7/04** (2013.01 - EP US)

Citation (examination)

- US 2005266904 A1 20051201 - KITAJI MITSUHIRO [JP], et al
- EP 1895383 A1 20080305 - RESEARCH IN MOTION LTD [CA]

Cited by

US10090907B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 2117079 A1 20091111**; **EP 2117079 B1 20190508**; CA 2662804 A1 20091108; CA 2662804 C 20170523; CN 101582539 A 20091118; KR 101067806 B1 20110927; KR 20090117638 A 20091112; US 2009278750 A1 20091112; US 2013122976 A1 20130516; US 8378898 B2 20130219; US 8604984 B2 20131210

DOCDB simple family (application)

**EP 08161563 A 20080731**; CA 2662804 A 20090416; CN 200910137119 A 20090507; KR 20090039782 A 20090507; US 18322308 A 20080731; US 201313732726 A 20130102